

METHOD AND APPARATUS FOR HEATING A NOZZLE WITH
RADIANT ENERGY

ABSTRACT OF DISCLOSURE

A system and method provide an injection molding apparatus utilizing radiation energy as a heat source. The injection molding apparatus may includes at least a partially transparent nozzle or may include a thermally conductive nozzle having a nozzle body and a nozzle channel that receives a fluid material at an inlet. The fluid material has a pressure induced flow causing the fluid material to flow along an axis of the nozzle channel from the inlet to an outlet. A radiant energy heating device heats the nozzle channel to maintain the fluid material in a fluid state.

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